

CLAIMS:

1. A tip structure for a support leg for a stand, comprising:

a main body;

an elongated spike member disposed in a first aperture of said main body;

5 wherein said spike member is resiliently biased to translate in said aperture of said main body.

2. The tip structure according to claim 1, further comprising an internal locking assembly for locking said spike member in a projecting position with respect to said main body.

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3. The tip structure according to claim 2, further comprising a button member slidably disposed in a second aperture of said main body, said button member selectively disengaging said internal locking assembly.

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4. The tip structure according to claim 2, wherein said internal locking assembly comprises a resiliently biased locking plate having a latching portion that engages a detent formed in said spike member.

5. The tip structure according to claim 2, wherein said internal locking assembly is
20 contained within said main body.

6. The tip structure according to claim 1, further comprising a retraction spring biasing said spike member toward a retracted position.

7. The tip structure according to claim 1, further comprising an end cap fitted around a bottom portion of said main body, said end cap having an opening through which said spike member is adapted to pass.

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8. The tip structure according to claim 1, further comprising at least one mounting hole disposed on a side of said main body for mounting said main body to at least one leg of a stand.

9. The tip structure according to claim 8, further comprising at least one pivot limiting member for limiting a range of pivotal motion between said main body and said at least one leg.

10. The tip structure according to claim 2, wherein said locking plate is L-shaped.

11. The tip structure according to claim 2, wherein said locking plate is formed with a latching aperture through which said spike member is adapted to pass.

12. The tip structure according to claim 11, wherein said latching aperture has two portions defining first and second diameters, said spike member adapted to freely pass through said first diameter and said spike member adapted to be locked by said second diameter.

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13. The tip structure according to claim 12, wherein said spike member comprises an annular groove engaging said second diameter in said projecting position.

14. The tip structure according to claim 3, further comprising a retraction spring biasing said spike member toward a retracted position when said button member is depressed.

15. A tip structure for a support leg for a stand, comprising:

5 a main body;

an elongated spike member disposed in a first aperture of said main body;

an internal locking assembly for locking said spike member in a projecting position with respect to said main body;

a lock disabling assembly for selectively disengaging said internal locking assembly;

10 wherein said spike member is resiliently biased to translate in said aperture of said main body.

16. The tip structure according to claim 15, wherein said lock disabling assembly comprises a button member slidably disposed in a second aperture of said main body, said

15 button member selectively disengaging said internal locking assembly.

17. The tip structure according to claim 15, wherein said internal locking assembly comprises a resiliently biased locking plate having a latching portion that engages a detent formed in said spike member.